

JUL 20 2007

IN THE CLAIMS

Please amend the claims to read as follows:

Listing of Claims

1. (Currently Amended) An OFDM-CDMA transmitting apparatus comprising:

a first spreading section that spreads specific transmit symbols using a first spreading ratio;

a second spreading section that spreads other transmit symbols than the specific transmit symbols using a second spreading ratio smaller than the first spreading ratio;

a number of multiplexing selection section that selects a number of multiplexing for the specific transmit symbols and a number of multiplexing for the other transmit symbols each transmit symbol;

a multiplexing section that multiplexes a spread signal of the specific transmit symbols spread by the first spreading section and a spread signal of the other transmit symbols spread by the second spreading section using the selected numbers of multiplexing each transmit symbol using a selected number of multiplexing; and

an orthogonal frequency division multiplexing section that distributes a the multiplexed spread ~~signal~~ signals among a plurality of subcarriers.

2. (Currently Amended) The OFDM-CDMA transmitting apparatus according to claim 1, wherein said the number of multiplexing selection section makes a the number of multiplexing of a the specific symbol symbols smaller than a the number of multiplexing of the other transmit symbols.

3. (Currently Amended) The OFDM-CDMA transmitting apparatus according to claim 2, wherein data for which better channel quality is required than for other data is allocated to said the specific transmit symbol symbols whose number of multiplexing has been reduced.

4. (Currently Amended) The OFDM-CDMA transmitting apparatus according to claim 2, wherein said the specific symbol symbols whose number of multiplexing has been reduced is placed at a start of a frame.

5. (Currently Amended) The OFDM-CDMA transmitting apparatus according to claim 2, wherein said the number of

multiplexing selection section reduces a number of multiplexing of a retransmission symbol in accordance ~~as~~ with an increase of a number of retransmissions increases.

6. (Currently Amended) The OFDM-CDMA transmitting apparatus according to claim 2, wherein ~~a modulation~~ an M-ary modulation number of ~~said the~~ specific symbol symbols whose number of multiplexing has been reduced is made smaller than ~~a modulation~~ an M-ary modulation number of ~~the~~ other transmit symbols.

7. (Currently Amended) The OFDM-CDMA transmitting apparatus according to claim 2, wherein ~~said the~~ specific symbol symbols whose number of multiplexing has been reduced ~~is~~ are inserted periodically.

8. (Currently Amended) An OFDM-CDMA receiving apparatus that receives and demodulates a signal transmitted from the OFDM-CDMA transmitting apparatus according to claim 7, and performs ~~propagation path~~ channel estimation result updating using ~~said the~~ periodically inserted specific symbol symbols whose number of multiplexing has been reduced.

9. (Currently Amended) The OFDM-CDMA transmitting apparatus according to claim 2, wherein a number of multiplexing of said ~~the~~ specific ~~symbol~~ symbols whose number of multiplexing has been reduced is made "1".

10. (Currently Amended) The OFDM-CDMA transmitting apparatus according to claim 2, wherein said orthogonal frequency division multiplexing section distributes chips of said ~~the~~ specific ~~symbol~~ symbols whose number of multiplexing has been reduced only in a time axis ~~direction~~ domain.

Claims 11 and 12 (Cancelled).

13. (Currently Amended) The OFDM-CDMA transmitting apparatus according to claim ~~12~~ 1, wherein data for which better channel quality is required than for other data is allocated to said ~~the~~ specific transmit ~~symbol~~ symbols whose ~~spreading ratio~~ has been increased.

14. (Currently Amended) The OFDM-CDMA transmitting apparatus according to claim ~~12~~ 1, wherein said ~~the~~ specific ~~symbol~~ symbols whose ~~spreading ratio has been increased~~ is are placed at a start of a frame.

15. (Currently Amended) The OFDM-CDMA transmitting apparatus according to claim 12 1, wherein ~~said the first spreading section and the second spreading section increase~~ increases a spreading ratio ratios of a retransmission symbol symbols in accordance ~~as~~ with an increase of a number of retransmissions increases.

16. (Currently Amended) The OFDM-CDMA transmitting apparatus according to claim 12 1, wherein ~~a modulation an M-ary modulation~~ number of ~~said the specific symbol symbols~~ whose ~~spreading ratio has been increased~~ is made smaller than a ~~modulation an M-ary modulation~~ number of ~~the~~ other transmit symbols.

17. (Currently Amended) The OFDM-CDMA transmitting apparatus according to claim 12 1, wherein ~~said the specific symbol symbols~~ whose ~~spreading ratio has been increased~~ is are inserted periodically.

18. (Currently Amended) An OFDM-CDMA receiving apparatus that receives and demodulates a signal transmitted from the OFDM-CDMA transmitting apparatus according to claim 17, and performs ~~propagation path~~ channel estimation result updating

using said ~~the~~ periodically inserted specific ~~symbol~~ symbols whose spreading ratio has been increased.

Claim 19 (Cancelled).

20. (Currently Amended) The OFDM-CDMA transmitting apparatus according to claim ~~12~~ 1, wherein said ~~the~~ orthogonal frequency division multiplexing section distributes chips of said ~~the~~ specific ~~symbol~~ symbols whose spreading ratio has been increased only in a time axis ~~direction~~ domain.

21. (Currently Amended) An OFDM-CDMA transmitting method comprising ~~a step of making a number of code division multiplexing of a specific transmit symbol smaller than a number of code division multiplexing of other transmit symbols steps of:~~
spreading specific transmit symbols using a first spreading ratio;

spreading other transmit symbols than the specific transmit symbols using a second spreading ratio smaller than the first spreading ratio;

selecting a number of multiplexing for the specific transmit symbols and a number of multiplexing for the other transmit symbols;

multiplexing a spread signal of the specific transmit symbols spread by the first spreading section and a spread signal of the other transmit symbols spread by the second spreading section using the selected numbers of multiplexing; and distributing the multiplexed spread signals among a plurality of subcarriers.

Claim 22 (Cancelled).

23. (Currently Amended) The OFDM-CDMA transmitting apparatus according to claim 1, wherein the first spreading section and the second said spreading section increases increase a number of spreading codes assigned to a retransmission signal as in accordance with an increase of a number of retransmissions increases and performs perform multicode multiplexing of a retransmission signal.

24. (Currently Amended) The OFDM-CDMA transmitting apparatus according to claim 23, wherein the first spreading section and the second said spreading section varies a vary the number of spreading codes assigned to said the retransmission signal in accordance with a number of other code division

multiplexed signals multiplexed in ~~said~~ the retransmission signal after multicode multiplexing.

25. (Currently Amended) The OFDM-CDMA transmitting apparatus according to claim 23, further comprising a transmission power control section that increases transmission power of ~~said~~ the multicode-multiplexed ~~said~~ retransmission signal ~~as a~~ in accordance with the increase of the number of retransmissions increases.

26. (Currently Amended) The OFDM-CDMA transmitting apparatus according to claim 25, wherein ~~said~~ the transmission power control section varies ~~said~~ the transmission power in accordance with a number of other code division multiplexed signals multiplexed in ~~said~~ the retransmission signal after multicode multiplexing.

27. (Currently Amended) The OFDM-CDMA transmitting apparatus method according to claim 21, wherein when ~~said~~ the specific transmit ~~symbol is a~~ symbols are retransmission signal signals, that the retransmission signal ~~is~~ signals are spread by means of a number of spreading codes in accordance with a number of retransmissions.